

CLAIMS

1. A non-human mammal showing a phenotype of autoimmune disease through production of an antibody reacting to an antigen protein for an autoimmune disease or T cell activation.
2. The non-human mammal of claim 1, wherein immune cells from a non-human mammal lacking an antigen gene for the autoimmune disease have been transplanted to the non-human mammal.
3. The non-human mammal of claim 1, wherein immune cells from a non-human mammal that lacks the antigen gene for the autoimmune disease and that has been immunized with the antigen protein have been transplanted to the non-human mammal.
4. The non-human mammal of claim 2 or 3, wherein the immune cells are transplanted to an immunodeficient non-human mammal.
5. The non-human mammal of claim 4, wherein the immunodeficient non-human mammal is a non-human mammal that lacks the RAG2 gene.
6. The non-human mammal of any one of claims 2 to 5, wherein the immune cells are splenocytes.
7. The non-human mammal of any one of claims 1 to 6, wherein the autoimmune disease is pemphigus vulgaris.
8. The non-human mammal of claim 7, wherein the antigen protein is desmoglein 3 protein.
9. The non-human mammal of any one of claims 1 to 8, wherein the non-human mammal is a rodent.
10. The non-human mammal of claim 9, wherein the rodent is a mouse.
11. A method for producing a non-human mammal showing a phenotype of autoimmune disease through production of an antibody reacting to an antigen protein for an autoimmune disease or T cell activation, which comprises the steps of:
- (a) immunizing, with the antigen protein for the autoimmune disease, a non-human mammal that lacks the antigen gene for the autoimmune disease,
- (b) preparing immune cells from the non-human mammal, and
- (c) transplanting the immune cells to a non-human mammal having the antigen protein.
12. The method of claim 11, wherein the immune cells are transplanted

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